



CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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January 28, 2020

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Subject: Central Utah Project (CUP) Import Water in Utah Lake

Dear Ms. Briefer and Mr. Larsen:

CUWCD anticipates that Utah Lake will reach compromise elevation sometime in the next few months. CUWCD claims direct deliveries and return flows under water rights 43-3822 and 55-1875 on a space available basis in Utah Lake subject to incremental evaporation. For your reference I have summarized the sources and accounting of this water below.

Once Utah Lake reaches compromise elevation the CUP import water claimed will be the first to spill out of Utah Lake and CUWCD, in anticipation of Utah Lake reaching compromise, is requesting that the gates to the Jordan river be opened in a manner to properly control the CUP import water as it leaves Utah Lake. We are making this request so we can control the release and minimize potential flood risks downstream along the Jordan River. CUWCD staff will measure and account for the CUP import water as it is released.

According to the 1985 Utah Lake Compromise agreement the Utah lake control gates may be operated to "release, regulate, divert and deliver the quantities of water to which the respective water rights owners are entitled." In addition to the allowance of the release of water owned and/or administered by CUWCD for regulation and deliveries, the compromise agreement also allows for the gates to be opened prior to meeting compromise by authority of the State Engineer for flood control.

Sources of CUP import water in Utah Lake during water year 2019 (November 1, 2018 to October 31, 2019):

- 1) We claim that 93,423 acre-feet of import water under application A36639, was carried over from water year 2018, subject to incremental evaporation, in Utah Lake. CUWCD sends a yearly letter to the State Engineer that you may reference for accounting of our 93,423 that was carried over from WY2018.
- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 40,104 acre-feet was conveyed to and stored in Utah Lake from November 1, 2018 through October 31, 2019. We understand that this will be adjusted for incremental evaporation, even in current year accounting. Adjustments for evaporation will be summarized later in this document.
- 3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2019 under A36639 in the amount of 14,864 acre-feet. We then claim 35 percent of this amount, subject to incremental evaporation, as credit to CUP water in Utah Lake under A37093.

CUP Import Water Delivery from Strawberry Reservoir to Utah Lake						
	Stawberry Res.	Strawberry Res.	35 Percent		Total	Total
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake	
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	93,423 *
Nov	1,350			-939	411	93,834
Dec	1,395			-377	1,018	94,852
Jan	1,395			-248	1,147	95,999
Feb	1,260			-227	1,033	97,032
Mar	1,422			-261	1,161	98,193
Apr	1,470			-391	1,079	99,272
May	1,760			-779	981	100,253
Jun	1,451		0	-969	482	100,735
Jul	1,480	4,313	1,509	-1,732	1,257	101,992
Aug	7,385	6,479	2,268	-2,451	7,202	109,194
Sep	9,491	4,032	1,411	-2,293	8,609	117,803
Oct ** Estimate	10,245	40	14	-1,556	8,703	126,506
Total	40,104	14,864	5,202	-12,223	33,083	
* Carryover from WY2018 adjusted for incremental evaporation						

CUP Import Water Delivery from Strawberry Reservoir to Utah Lake						
	Strawberry Res.	Strawberry Res.	35 Percent		Total	Total
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake	
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	126,506 *
Nov	2,270			-843	1,427	127,933
Dec	1,209			-350	859	128,792
Jan	1,053			-242	811	129,603

Utah Lake Incremental Evaporation from CUP Import Water

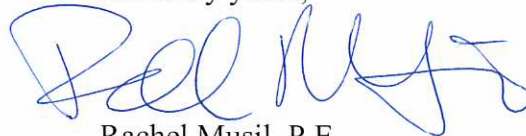
		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w/ CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-4.90	80,498	76,473	4,025	2.80	939
Dec	-4.60	81,477	77,510	3,967	1.14	377
Jan	-4.12	83,023	79,161	3,861	0.77	248
Feb	-3.72	84,289	80,506	3,783	0.72	227
Mar	-3.20	85,912	82,228	3,683	0.85	261
Apr	-2.51	87,665	84,472	3,193	1.47	391
May	-2.53	87,617	84,370	3,247	2.88	779
Jun	-1.16	91,105	88,220	2,885	4.03	969
Jul	-0.40	93,180	90,177	3,003	6.92	1,732
Aug	-0.91	91,777	88,625	3,152	9.33	2,451
Sep	-1.50	90,210	86,895	3,315	8.30	2,293
Oct ** Estimate	-1.71	89,666	86,068	3,599	5.19	1,556

Utah Lake Incremental Evaporation from CUP Import Water

		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w/ CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-1.34	90,628	87,014	3,615	2.80	843
Dec	-1.01	91,507	87,819	3,688	1.14	350
Jan	-0.60	92,624	88,856	3,768	0.77	242

We would be happy to answer any questions that you may have and we look forward to your response to our request to manage and control the release of CUP import water prior to the lake reaching compromise.

Sincerely yours,



Rachel Musil, P.E.
Water Rights Manager

RBM

cc: Boyd Clayton – Interim State Engineer
Ross Hansen – Regional Engineer Utah Lake/Jordan River
Jared Manning – Assistant State Engineer – Field Services